

538,567

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
1 July 2004 (01.07.2004)

PCT

(10) International Publication Number
WO 2004/055860 A1

(51) International Patent Classification⁷: **H01J 61/26, 61/35** [US/US]; P.O. Box 3001, Briarcliff Manor, NY 10510-8001 (US).

(21) International Application Number: **PCT/IB2003/005776**

(22) International Filing Date: 3 December 2003 (03.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 60/434,592 18 December 2002 (18.12.2002) US

(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL)**

(72) Inventor; and

(75) Inventor/Applicant (for US only): **TRUSHELL, Charles**

(74) Common Representative: **KONINKLIJKE PHILIPS ELECTRONICS N.V.; c/o BARTLETT, Ernestine, C., P.O. Box 3001, Briarcliff Manor, NY 10510-8001 (US)**

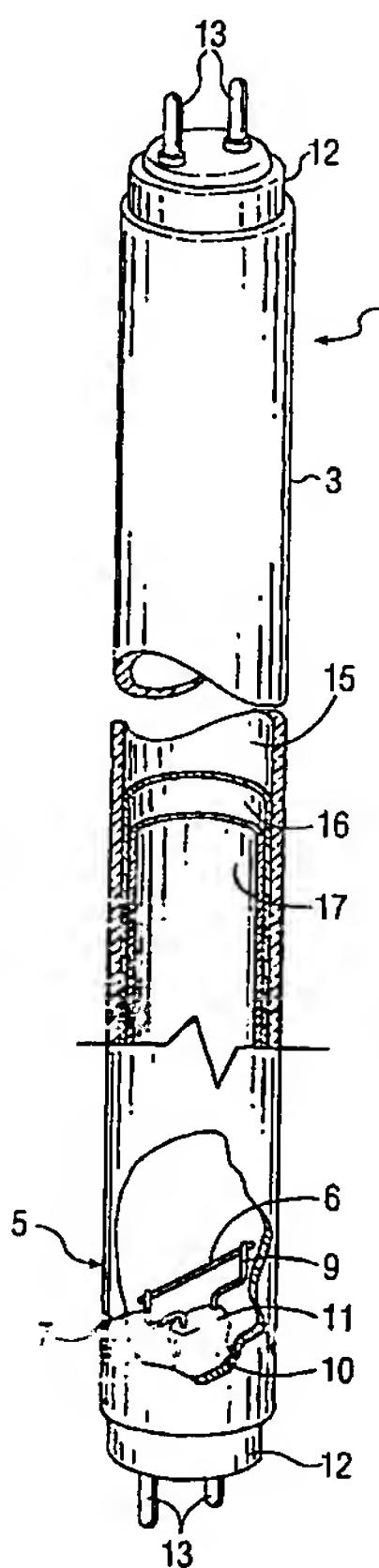
(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,

[Continued on next page]

(54) Title: CONTAMINANT GETTER ON UV REFLECTIVE BASE COAT IN FLUORESCENT LAMPS

(57) Abstract: An electric lamp is provided having a luminescent layer on the lamp envelope that produces visible light when impinged by ultraviolet radiation generated within the lamp. An undercoat for the electric lamp increases the luminous efficacy of the lamp. The undercoat includes a particulate non-fluorescent material derived from a sintered mixture of an aluminum oxide material with a contiguous layer of getter material which reacts with contaminants present in the lamp. The getter material is an alkaline earth metal borate material or mixtures thereof.



WO 2004/055860 A1



SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

Declaration under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.